

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/004964

A. CLASSIFICATION OF SUBJECT MATTER
Int. Cl.⁷ F16D25/12, 25/0638

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int. Cl.⁷ F16D25/12, 25/0638, F16J15/32

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005
Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 2003-42185 A (NOK Corp.), 13 February, 2003 (13.02.03), Column 1, line 46 to column 2, line 4; column 3, lines 16 to 43; column 5, lines 12 to 32; column 5, line 48 to column 6, line 28; Figs. 2, 3 (Family: none)	1-4 5
Y	US 2004/0035666 A1 (Wolfgang Grosspietsch et al.), 26 February, 2004 (26.02.04), Par. Nos. [0077] to [0083]; Figs. 3, 10 to 12 & EP 1339995 A1 & WO 2002/046632 A1	1-5

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

- A- document defining the general state of the art which is not considered to be of particular relevance
- E- earlier application or patent but published on or after the international filing date
- L- document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- O- document referring to an oral disclosure, use, exhibition or other means
- P- document published prior to the international filing date but later than the priority date claimed

- T- later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- X- document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- Y- document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- &- document member of the same patent family

Date of the actual completion of the international search
07 June, 2005 (07.06.05)

Date of mailing of the international search report
21 June, 2005 (21.06.05)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2003-329143 A (NOK Corp.), 19 November, 2003 (19.11.03), Column 5, line 2 to column 6, line 26; Figs. 1 to 3 (Family: none)	1-5
Y	US 2003/0168306 A1 (Michael Joseph Gorman et al.), 11 September, 2003 (11.09.03), Par. Nos. [0022] to [0030]; Figs. 1a, 1b & DE 10309601 A1	1-5
A	JP 56-27738 B2 (General Motors Corp.), 26 June, 1981 (26.06.81), Column 7, line 40 to column 8, line 26; Fig. 4 & DE 2340760 A1 & FR 2199832 A1 & GB 1391377 A & US 3848518 A & US 3914849 A	1-5
A	US 6039160 A (General Motors Corp.), 21 May, 2000 (21.05.00), Column 2, line 65 to column 3, line 1; Fig. 1 (Family: none)	1-5
E, A	JP 2005-90568 A1 (NOK Corp.), 07 April, 2005 (07.04.05), Full text; all drawings (Family: none)	1-5

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

The technical feature common to the inventions of claims 1-5 is "a reinforcement member having a section extending to the root of a seal lip."
However, the technical feature is not novel because the search has revealed that the reinforcement member is disclosed in JP 2003-42185 A (NOK Corp.), 13 February, 2003 (13.02.03), column 1, line 46 to column 2, line 4; column 3, lines 16 to 43; column 5, lines 12 to 32; column 5, line 48 to column 6, line 28; Figs. 2, 3 (Family: none).

Consequently, the reinforcement member makes no contribution over the prior art; therefore the technical feature is not a special technical feature (continued to extra sheet)

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims: it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

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Continuation of Box No. III of continuation of first sheet (2)

within the meaning of PCT Rule 13.2, second sentence.

Further, there is no other common technical feature that can be considered as a special technical feature within the meaning of PCT Rule 13.2, second sentence.